COMPUTED BY: <u>G. DOBBS</u> DATE: <u>10/11/10</u> CHECKED BY: M. WEST DATE: 08/27/09

## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. SHEET NO. EB-4707B 3B-2

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.

TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT. FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.

W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.

G = GATING IMPACT ATTENUATOR TYPE 350

NG = NON-GATING IMPACT ATTENUATOR TYPE 350

## GUARDRAIL SUMMARY

URVEY	DEC. CTA	ENID CTA	LOCATION		LENGTH		WARRAN	VARRANT POINT  "N" DIST. FROM E.O.L.  "N" ANCHORS  FLARE LENGTH W APPROACH TRAILING APPROACH TRAILING TYPE AT 1 CAT 1 B 77 B 93 FIND.	ANCHORS			A <sup>-</sup>	IMPACT ATTENUATOR TYPE 350. REMOV	MOVE REMOV	REMOVE AND	DELLADIC								
INE	BEG. STA.	END STA.	ND STA. LOCATION -	STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END	FROM E.O.L.	FROM SHOULDER - WIDTH	APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE AT-	1 CAT-1	B-77	B-83	TERMINAL END · SECTION		PERMITTED GUARDRAIL  NO. G NG	TOUR RDRAIL GUARDRA	IL STOCKPILE EXISTING GUARDRAIL	REMARKS
-L	63 + 08.75	64+15.00	LT	106.25				64+25.00	8	11						1						108		TIE TO EXISTING GUARDRAIL ANCHOR UNIT
-L-	63 + 05.95	64 + 55.95	RT	150			64+70.00		8	11	50		1		1							143		TIE TO EXISTING GUARDRAIL ANCHOR UNIT
-L-	67 + 49.33	68+99.33	LT	150			67 + 35.00		8	11	50				1							177		TIE TO EXISTING GUARDRAIL ANCHOR UNIT
-L-	67 + 82.75	69 + 01.50	RT	118.75				67 + 80.00	8	11						1						152		TIE TO EXISTING GUARDRAIL ANCHOR UNIT
-L	104 + 00.00	107 + 00.00	LT	300			105 + 56.00	105 + 07.00	14		50	50	1	1	2									
-L-	104 + 00.00	107 + 50.00	RT	350			105 + 85.00	106 + 34.00	14		50	50	1	1	2									
-L	119 + 49.33	121 + 17.88	LT	175			119 + 97.00		_			50		1	1							119		TIE TO EXISTING GUARDRAIL ANCHOR UNIT
-L-	119 + 65.56	120 + 90.56	RT	125				120 + 18.50	_		50		1		1							119		TIE TO EXISTING GUARDRAIL ANCHOR UNIT
L–	123 + 11.15	126 + 48.65	LT	337.50			125 + 50.00		14		50		1		1							305		TIE TO EXISTING GUARDRAIL ANCHOR UNIT
-L-	122 + 91.15	126 + 54.00	RT	362.50				126+00.00	14			50		1	1							334		TIE TO EXISTING GUARDRAIL ANCHOR UNIT
/14–	13 + 34.00	13 + 84.00	LT	50					_		50		1		1							94		TIE TO EXISTING GUARDRAIL ANCHOR UNIT
			OVERALL CURTOTAL	0005.00							1													
			OVERALL – SUBTOTAL	. 2225.00	1						1													
	LESS ANCHOR	DEDUCTIONS																						
	GRAU 350	11 @ 50.00′	=	-550.00																				
	CAT-1	2 @ 6.25′	=	-12.50																				
	TERM. END SEC.	* NO DEDUCTI	DNS																					
			TOTAL	1662.50																				
			SAY	1675.00																				
			JAI	1075.00										TOTAL						1		1551		

ADDITIONAL GUARDRAIL POSTS = \_10\_ EA

1. Approximate quantities only. Unclassified Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

REA	MOVAL OF EXISTING AS	PHALT PAVEM	ENT
LINE	STATION TO STATION	LOCATION	SQ. YDS.
-L-	61+00 TO 61+55	LT	20
-L-	61+80 TO 62+45	LT	217
-L-	61+55 TO 62+15	RT	121
-L-	75+55 TO 76+40	RT	46
-L-	77+05 TO 87+80	RT	370
-L-	103+70 TO 104+90	RT	286
-L-	107 + 50 TO 110 + 90	RT	100
-L-	111+40 TO 116+40	RT	100
-L-	129 + 50 TO 131 + 50	RT	87
-L-	133+50 TO 136+75	RT	46
-L-	140+00 TO 140+55	LT	23
TOTAL			1416
SAY			1420

LINIE	FENCE REPLACEMENT	LOCATION	LENGTH	FENCE REMOVAL	LENGTH	REMARKS	
LINE	STATION TO STATION	LOCATION	REPLACED (LF)	STATION TO STATION	REMOVED (LF)		
-L-	63+77 TO 64+45	LT	70	63+77 TO 64+45	70	TIE TO EXISTING CHAIN LINK FENCE	
-L-	64+79 TO 64+84	RT	20	64+79 TO 64+84	20	TIE TO EXISTING CHAIN LINK FENCE	
-L-	67+22 TO 67+26	LT	16	67+22 TO 67+26	16	TIE TO EXISTING CHAIN LINK FENCE	
-L-	67+62 TO 68+10	RT	62	67+62 TO 68+10	62	TIE TO EXISTING CHAIN LINK FENCE	
-L-	69+20 TO 69+75	RT	60	69 + 75 TO 69 + 99	52	TIE TO PROPOSED PEDESTRIAN RAILING	
-L-	70 + 52 TO 71 + 45	LT	132	70+52 TO 71+45	122	TIE TO EXISTING CHAIN LINK FENCE	
-L-	_	RT	_	101 + 20	30	REMOVE TO NEAREST POST	
-L-	_	RT	_	102 + 20	34	REMOVE TO NEAREST POST	

	REMOVAL AND REPLACEMENT OF EXISTING FENCE (LF) – 60" CHAIN FENCE								
LINE	FENCE REPLACEMENT STATION TO STATION	LOCATION	LENGTH REPLACED (LF)	FENCE REMOVAL STATION TO STATION	LENGTH REMOVED (LF)	REMARKS			
-L-	77+36 TO 78+04	LT	78	77+36 TO 78+04	84	TIE TO EXISTING CHAIN LINK FENCE			
TOTAL			78		84				

	REMOVAL AND REPLACEMENT OF EXISTING FENCE (LF) – 72" CHAIN FENCE									
LINE	FENCE REPLACEMENT STATION TO STATION	LOCATION	LENGTH REPLACED (LF)	FENCE REMOVAL STATION TO STATION	LENGTH REMOVED (LF)	REMARKS				
-L-	113+73 TO 115+33	LT	167	113+73 TO 115+33	215	<del>_</del>				
TOTAL			167		215					

REMOVAL AND REPLACEMENT OF EXISTING FENCE (LF) – 47" WIRE FENCE									
LINE	LINE FENCE REPLACEMENT STATION TO STATION		LENGTH REPLACED (LF)	FENCE REMOVAL STATION TO STATION	LENGTH REMOVED (LF)	REMARKS			
-L-	88+63 TO 88+69	LT	25	88+63 TO 88+69	25	TIE TO EXISTING WIRE FENCE			
TOTAL			25		25				

	RESET EXISTING FENCE (LF) – 48" WOOD FENCE										
LINE	FENCE REPLACEMENT STATION TO STATION	LOCATION	LENGTH REPLACED (LF)	FENCE REMOVAL STATION TO STATION	LENGTH REMOVED (LF)	REMARKS					
-L-	137+52 TO 137+64	LT	31	137 + 52 TO 137 + 64	31	RESET – TIE TO EXISTING WOOD FENCE					
-L-	137+77 TO 138+62	LT	100	137 + 77 TO 138 + 62	100	RESET – TIE TO EXISTING WOOD FENCE					
TOTAL			131		131						